

CLAIMS

What is claimed is:

1. A system for setting up a control device to command the operations of an appliance, comprising:

- 5 a power monitor associated with the appliance, the power monitor having circuitry for determining a current power state of the appliance and a first wireless communication module; and
- the control device having a library of command code sets, a second wireless communication module for transmitting a command code selected from a command code set to the appliance, and a third wireless communication module for receiving a
- 10 communication from the first wireless communication module of the power monitor;

 wherein the control device has setup mode programming for transmitting to the appliance via the second wireless communication module a command code from one of the command code sets and for receiving from the power monitor via the third wireless

15 communication module a signal which indicates that the transmitted command code caused a change in the current power state of the appliance whereupon the command code set which includes the command code to which the appliance responded by

 changing power states is selected for use in commanding the operations of the appliance.

- 20 2. The system as recited in claim 1, wherein the signal further comprises data indicative of an address of the power monitor.

3. The system as recited in claim 1, wherein the command code is a command code that directly effects a power state of the appliance.

4. The system as recited in claim 1, wherein the command code is a command code that indirectly effects a power state of the appliance.

5. The system as recited in claim 1, wherein the control device is adapted to automatically transmit a command code from each of a plurality of command code sets until receiving the signal from the power monitor.

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6. The system as recited in claim 5, wherein each of the plurality of command code sets are used to command operations of one type of appliance.

7. The system as recited in claim 6, wherein the type of appliance is user-designated.

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8. The system as recited in claim 5, wherein the command code from each of the plurality of command code sets is transmitted in an order reflective of an install base of the one type of appliance.

20 9. The system as recited in claim 1, wherein the control device is adapted to respond to a manual interaction to transmit a command code from each of a plurality of command code sets until receiving the signal from the power monitor.

10. The system as recited in claim 9, wherein each of the plurality of command code sets are used to command operations of one type of appliance.

11. The system as recited in claim 10, wherein the type of appliance is user-designated.

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12. The system as recited in claim 9, wherein the command code from each of the plurality of command code sets is transmitted in an order reflective of an install base of the one type of appliance.

10 13. The system as recited in claim 1, wherein the first communication module and the third communication module each comprise an RF communication module.

14. The system as recited in claim 1, wherein the second communication module comprises an IR communication module.

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15. In a control device, a method for setting up the control device to command the operations of an appliance, comprising:

(a) transmitting a command code selected from a first command code set;

' (b) determining if a signal is received from a power monitor associated with the
20 appliance, the signal indicating that the power monitor detected that the transmitted command code caused a change in the current power state of the appliance;

(c) in response to receipt of the signal, using the command code set which includes the command code to which the appliance responded by changing power states as the command code set for commanding operations of the appliance; and

(d) in response to an absence of the signal, transmitting a command code selected
5 from a next command code set, if any, and repeating steps (b) – (d).

16. The method as recited in claim 15, wherein the signal received from the power monitor comprises data indicative of an address of the power monitor.

10 17. The method as recited in claim 15, wherein the command code is a command code that directly effects a power state of the appliance.

18. The method as recited in claim 15, wherein the command code is a command code that indirectly effects a power state of the appliance.

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19. The method as recited in claim 15, wherein the control device is adapted to automatically transmit a command code from each of a plurality of command code sets until receiving the signal from the power monitor.

20 20. The method as recited in claim 19, wherein each of the plurality of command code sets are used to command operations of one type of appliance.

21. The method as recited in claim 20, wherein the type of appliance is user-designated.

22. The method as recited in claim 20, wherein the command code from each of the plurality of command code sets is transmitted in an order reflective of an install base of the one type of appliance.

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23. The method as recited in claim 15, wherein the control device is adapted to respond to a manual interaction to transmit a command code from each of a plurality of command code sets until receiving the signal from the power monitor.

10 24. The method as recited in claim 23, wherein each of the plurality of command code sets are used to command operations of one type of appliance.

25. The method as recited in claim 24, wherein the type of appliance is user-designated.

15 26. The method as recited in claim 24, wherein the command code from each of the plurality of command code sets is transmitted in an order reflective of an install base of the one type of appliance.

27. The method as recited in claim 15, wherein signal is received via a RF
20 communication module.

28. The method as recited in claim 15, wherein the command code is transmitted via an IR communication module.

29. A system for setting up a control device to command the operations of an appliance, comprising:

a power monitor associated with the appliance, the power monitor having circuitry for determining a current power state of the appliance and a first wireless

5 communication module; and

the control device having a library of command code sets, and at least a second wireless communication module for transmitting data indicative of a command code selected from a command code set corresponding to the appliance,

wherein the control device has setup mode programming for transmitting data
10 indicative of a command code from one of the command code sets via the second wireless communication module and for receiving from the power monitor via the second wireless communication module a signal which indicates that the transmitted command code caused a change in the current power state of the appliance whereupon the command code set which includes the command code to which the appliance responded
15 by changing power states is selected for use in commanding the operations of the appliance.

30. The system as recited in claim 29, wherein the signal further comprises data indicative of an address of the power monitor.

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31. The system as recited in claim 29, wherein the command code is a command code that directly effects a power state of the appliance.

32. The system as recited in claim 29, wherein the command code is a command code that indirectly effects a power state of the appliance.

33. The system as recited in claim 29, wherein the control device is adapted to
5 automatically transmit a command code from each of a plurality of command code sets until receiving the signal from the power monitor.

34. The system as recited in claim 33, wherein each of the plurality of command code sets are used to command operations of one type of appliance.

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35. The system as recited in claim 34, wherein the type of appliance is user-designated.

36. The system as recited in claim 33, wherein the command code from each of the plurality of command code sets is transmitted in an order reflective of an install base of
15 the one type of appliance.

37. The system as recited in claim 1, wherein the control device is adapted to respond to a manual interaction to transmit a command code from each of a plurality of command code sets until receiving the signal from the power monitor.

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38. The system as recited in claim 37, wherein each of the plurality of command code sets are used to command operations of one type of appliance.

39. The system as recited in claim 38, wherein the type of appliance is user-designated.

40. The system as recited in claim 37, wherein the command code from each of the plurality of command code sets is transmitted in an order reflective of an install base of
5 the one type of appliance.

41. The system as recited in claim 29, wherein the control device further comprises a third wireless communication module for receiving the communication from the first wireless communication module of the power monitor.
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42. The system as recited in claim 41, wherein the first communication module and the third communication module each comprise an RF communication module.

43. The system as recited in claim 29, wherein the second communication module
15 comprises an IR communication module.